

AA #1 - Aug. 26<sup>th</sup>  
to  
AA #22 - Sept. 14<sup>th</sup>  
1899.

Hyd. 3776-3794. D=3681-3684.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

## Correction Table

No. *Sigsbee* Date *22 Aug. 199.*  
 Machine. Reel. *Navy #1.*

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

Measure Made

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Measuring</i>	<i>Sigsbee</i>	0	1200	1184
0	0	100	50	1233
50	49	200	1300	1282
100	98	300	50	1331
50	148	400	1400	1379 1/2
200	197	500	50	1428
50	246	600	1500	1477
300	296	700	50	1525 1/2
50	346	800	1600	1574 1/2
400	395	900	50	1622 1/2
50	444 1/2	1000	1700	1671
500	494	1100	50	1720
50	543 1/2	1200	1800	1768
600	593	1300	50	1817
50	643	1400	1900	1865
700	692	1500	50	1913
50	742	1600	2000	1961 1/2
800	791	1700	50	2009 1/2
50	840 1/2	1800	2100	2057 1/2
900	889 1/2	1900	50	2105 1/2
50	939	2000	2200	2154 1/2
1000	988	2100	50	2202 1/2
50	1037	2200	2300	2251 1/2
1100	86	2300	50	2300
50	1135	2400	2400	2390

2450	2438 $\frac{1}{2}$	2500	3200	3164
2500	2486	2600	50	3198
50	2534	2700	3300	3245
2600	2581	2800	50	3292
50	2629 $\frac{1}{2}$	2900	3400	3339 $\frac{1}{2}$
2700	2676	3000	50	3386
50	2724 $\frac{1}{2}$	3100	3500	3433
2800	2771 $\frac{1}{2}$	3200	50	3479 $\frac{1}{2}$
50	2819 $\frac{1}{2}$	3300	3600	3516 $\frac{1}{2}$
2900	2866 $\frac{1}{2}$	3400	50	3573 $\frac{1}{2}$
50	2914	3500	3700	3621
3000	2960	3600	50	3667
50	3009 $\frac{1}{2}$	3700	3800	3713 $\frac{1}{2}$
3100	3056	3800	50	3760
50	3102	3900	3900	3807
		4000	50	3854

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2199.5  
2149.5  
49.5

No. Date

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

Machine

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

4000	3990	0	5200	5002
50	3946 $\frac{1}{2}$	100	50	5047
4100	3893 $\frac{1}{2}$	200	5300	5092
50	4040	300	50	5137 $\frac{1}{2}$
4200	4085 $\frac{1}{2}$	400	5400	5185
50	4132 $\frac{1}{2}$	500	52	
4300	4179	600	5500	
50	4224 $\frac{1}{2}$	700	50	
4400	4270	800	5600	
50	4317	900	50	
4500	4363	1000	5700	
50	4408 $\frac{1}{2}$	1100	50	
4600	4455	1200	5800	
50	4500 $\frac{1}{2}$	1300	50	
4700	4547	1400	5900	
50	4591 $\frac{1}{2}$	1500	50	
4800	4637 $\frac{1}{2}$	1600	6000	
50	4683	1700		
4900	4729 $\frac{1}{2}$	1800		
50	4774 $\frac{1}{2}$	1900		
5000	4820	2000		
50	4865	2100		
5100	4911	2200		
50	4956 $\frac{1}{2}$	2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. \_\_\_\_\_ Date \_\_\_\_\_

Machine. \_\_\_\_\_ Reel. \_\_\_\_\_

Turns \_\_\_\_\_ Cor. + \_\_\_\_\_ Depth \_\_\_\_\_

Shot or lead \_\_\_\_\_

Bottom \_\_\_\_\_

Bottom temperature \_\_\_\_\_

No. of thermometer \_\_\_\_\_ Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air \_\_\_\_\_ Surface \_\_\_\_\_ Drift \_\_\_\_\_

Trawl or dredge \_\_\_\_\_

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Meann	Sigsbee	0		
0	0	100		
		200		
50	50	300		
		400		
100	150	500		
		600		
150	145 1/2	700	1/2	
		800		
200	199 1/2	900	1/2	
250		1000		
250	249 1/2	1100	1/2	
		1200		
300	299	1300	1	
		1400		
350	349	1500	1	
		1600		
400	398 1/2	1700	1 1/2	
		1800		
450	448 1/2	1900	2	1/2
		2000		
500	497	2100	3	1
		2200		
550	546 1/2	2300	3 1/2	1/2
		2400		

Measuring	Sigbee	2500		
600	596	2600	4	1/2
		2700		
650	645 1/2	2800	4 1/2	1/2
		2900		
700	694 1/2	3000	5 1/2	1
		3100		
750	743 1/2	3200	6 1/2	1
		3300		
800	793	3400	7	1/2
		3500		
850	842	3600	8	1
		3700		
900	891	3800	9	1
		3900		
950	939	4000	11	2

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Measuring	Sigbee		
50	1000	999 1/2	12 1/2	1 1/2
100				
200	1050	1037	13	1/2
300				
400	1100	1086	14	1 Splice 1100
500				
600	1150	1135 1/2	14 1/2	1/2
700				
800	1200	1183 1/2	16 1/2	2
900				
1000	1250	1232	18	1 1/2

REMARKS:



No. \_\_\_\_\_ Date \_\_\_\_\_

Machine. \_\_\_\_\_ Reel. \_\_\_\_\_

Turns \_\_\_\_\_ Cor. + \_\_\_\_\_ Depth \_\_\_\_\_

Shot or lead \_\_\_\_\_

Bottom \_\_\_\_\_

Bottom temperature \_\_\_\_\_

No. of thermometer \_\_\_\_\_ Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air \_\_\_\_\_ Surface \_\_\_\_\_ Drift \_\_\_\_\_

Trawl or dredge \_\_\_\_\_

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Measuring	Sigsbee	0		
1300	1288	100	20	2
		200		
1350	1321	300	21	1
		400		
1400	1356 1/2	500	23	2
		600		
1450	1425 3/4	700	24 1/2	1 1/2
		800		
1500	1474	900	26	1 1/2
		1000		
1550	1522	1100	28	2
		1200		Splice 1590
1600	1570	1300	30	2
		1400		
1650	1618	1500	32	2
		1600		
1700	1666	1700	34	2
		1800		
1750	1714	1900	36	2
		2000		
1800	1761	2100	34 1/2	2 1/2
		2200		
1850	1810	2300	40	1 1/2
		2400		

Measuring Sigsbee

1900	1858	2500	42	2
		2600		
1950	1906	2700	44	2
		2800		
2000	1953 1/2	2900	46 1/2	2 1/2
		3000		
2050	2001 1/2	3100	48 1/2	2
		3200		
2100	2051	3300	49	1 1/2
		3400		
2150	2097	3500	53	1
		3600		
2200	2145	3700	55	2 170 Splice
		3800		
2250	2192	3900	58	3
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Measuring Sigsbee			
50	2300	2089 1/2	60 1/2	2 1/2
100				
200	2350	2287	63	1 1/2
300				
400	2400	2335	65	2
500				
600	2450	2381 1/2	68 1/2	3 1/2
700				
800	2500	2430	70	1 1/2
900				
1000	2550	2477	73	3

REMARKS:

14 1/2

1450

1276

No. \_\_\_\_\_ Date \_\_\_\_\_

Machine. \_\_\_\_\_ Reel. \_\_\_\_\_

Turns \_\_\_\_\_ Cor. + \_\_\_\_\_ Depth \_\_\_\_\_

Shot or lead \_\_\_\_\_

Bottom \_\_\_\_\_

Bottom temperature \_\_\_\_\_

No. of thermometer \_\_\_\_\_ Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air \_\_\_\_\_ Surface \_\_\_\_\_ Drift \_\_\_\_\_

Trawl or dredge \_\_\_\_\_

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

Measuring	Signatures	0		
2600	2594 1/2	100	75 1/2	2 1/2
2650	2587	200		
		300	79	3 1/4
		400		
		500	11	
		600		
		700	60	
		800		
		900	11	
		1000		
		1100	90	3
		1200		
		1300	93 1/2	1 1/2
		1400		
		1500	76 1/2	3
		1600		
		1700	79	3
		1800		
3050	2748	1900	102	3
		2000		
3100	3074	2100	105 1/2	3 1/2
		2200		
3150	3040	2300	109	3 1/2
		2400		

Measuring	3200	2500		
	3250	2600	1172	3
		2700		
3250		2800		3
		2900		
3300		3000	1182	3
		3100		
3350		3200	1192	3
		3300		
3400		3400	1202	3
		3500		
3450		3600	1212	3
		3700		
3500		3800	1222	3
		3900		
3550		4000	1232	3

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25			152	
50	3600	3460 1/2	137 1/2	1
100				
200	3650	3507 1/2	142 1/2	2
300				
400	3700	3553 1/2	146 1/2	1
500				
600	3750	3600	150	1
700				
800	3800	3647	153	3
900				
1000	3850	3692 1/2	157 1/2	1

REMARKS:

No. \_\_\_\_\_ Date \_\_\_\_\_

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

Measuring	219.62	0		
39 0.0	57.38 1/2	100		
		200		
		300		
		400		
		500		
		600		
	217 1/2	700	117 1/2	
		800		
		900		
		1000		
	217 0	1100	117 0	
		1200		
	40 15 1/2	1300		
		1400		
		1500		
		1600		
	11 17 1/2	1700	112 1/2	
		1800		
43 50	41 53	1900		
		2000		
44 00	41 49 1/2	2100	110 1/2	
		2200		
44 50	41 45	2300		
		2400		

4500		2500		
4500		2600		
		2700		
4550	3. ?	2800		
		2900		
4600		3000	18	
		3100		
4		3200		
		3300		
4700		3400		
		3500		
4800		3600		
		3700		
4800	4565 7/2	3800	234 1/4	7
		3900		
		4000		5

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	49.00	7185		5.5
100				
200	48.50	7190	2.49	4.75
300				
400	48.00	7195	2.50	4.
500				
600	47.50	7200	2.51	5/8 Splice 5040
700				
800	47.00	7205	2.52	
900				
1000	46.50	7210	2.53	

REMARKS:

No. .... Date

Machine. .... Reel.

Turns .... Cor. + .... Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer .... Cor.

Corrected temperature

Air .... Surface .... Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

Measuring	Sigstar	0		+ 1/2
		100		
		200		Splice 5240
	4979	300	277 1/2	
		400		
	5110	500	282	4 1/2
		600		
	523	700	287	5
		800		
	5350	900	291 1/2	4 1/2
		1000		
	5473	1100	296 1/2	Splice 5441
		1200		
	5591	1300	302	5 1/2
		1400		
	5712	1500	308	6
		1600		
5665	5836	1700	314	6
		1800		
5655	5951	1900	319	5
		2000		
5710	6075	2100	324 1/2	5 1/2
		2200		
5710	6190	2300	330	
		2400		

5850	5510	2500		
5900	5554	2600	330	
5950	5599	2700		
6000	5644	2800	340	
6050		2900		
6100		3000	346	
6150		3100		
		3200	351	
		3300		
		3400	356	
		3500		
		3600	362	
		3700		
		3800	362 1/2	1/4
		3900		
		4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No.

Date

Aug. 26<sup>th</sup>

Machine.

Reel.

Turns 1769 Cor. +

Depth 1755

Shot or lead 60 lb

Bottom

Bottom temperature

No. of thermometer 78523

Cor.

Corrected temperature

Air

Surface 63

Drift

Trawl or dredge

O. S. dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

2, 43 20		0	2, 28 10	24.00
44.30		100	34.40	44.40
45.30	49.00	200	38.45	48.30
46.30	49.00	300	42.00	46.15
47.30	49.10	400	45.00	44.30
48.05	47.20	500	48.00	42.15
49.20	46.30	600		
50.35	45.40	700		
51.00	45.25	800		
52.20	44.30	900		
53.00	43.40	1000		
54.10	42.50	1100		
56.35	41.15	1200		
58.00	40.10	1300		
59.15	39.05	1400		
60.30	38.15	1500		
61.50	37.10	1600		
63.15	36.10	1700		
65.02	35.00	1769		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2-139.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

11.5  
17.6  
14.1

# SERIAL TEMPERATURES:

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11.5  
17.6  
14.1

3.00 ft. surface

# REMARKS:

The surface 4.5 m. was at 9.00 m. of red sand. The surface was 3.00 ft. surface. The surface was 3.00 ft. surface.

507.

4768.5

No.

2204

Date

25645

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
0	0	0	1250	
50		100	1300	
100		200	50	
50		300	1400	
50		400	50	
50		500	50	
50		600	50	
50		700	1600	
50		800	50	
50		900	1700	
50		1000	50	
50		1100	1800	
50		1200	50	
50		1300	1900	
50		1400	50	
50		1500	2000	
50		1600	50	
50		1700	2100	
50		1800	50	
50		1900	2200	
50		2000	50	
50		2100	2300	
50		2200	50	
50		2300	2400	
50		2400	50	

fmo	SM.		fmo	S.M.
2500		2500	3300	
50		2600	50	
2500		2700	3400	
50		2800	50	
2500		2900	3500	
50		3000	50	
2500		3100	3600	
50		3200	50	
2500		3300	3700	
50		3400	50	
2500		3500	3800	
50		3600	50	
2500		3700	3900	
50		3800	50	
2500		3900	4000	
50		4000	50	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9.57.30	
		100	-	
		200	.	
		300	.	
		400	12.40	
		500	16.5	
		600	1.25	
		700	27.15	
		800	20.50	
		900	27.10	
		1000	30.	
		1100	31.16	
		1200	32.10	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Net over at 10.28  
 " " "

No.

Date

Machine.

Reel.

Turns 1200 Cor. +

Depth 2308

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor. - 0.4

Corrected temperature 34.6

Air

Surface

Drift

Trawl or dredge 8 firt.

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
1.4.30	3.5.45	0	4.49.30	15.50
1.3.20	3.1.21	100	4.31	15.10
	2.1.11	200	7.59	11.7
	2.1.1	300	10.13.10	11.27
	2.0-35	400	11.20	2-2.20
	2.0.12	500	12.20	3.15
	3.0.15	600	13.20	50.36
	3.1.11	700	16.20	52.13
	3.6.2	800	17.16	8.31
	3.5.17	900	18.10	4.56
	3.4.1	1000	20.27	41.6
	3.4.1	1100	29.01	32.01
	3.3.12	1200	31.15	31.50
	3.1.54	1300	32.21	31.25
	3.1.02	1400	35.18	7.37
	3.0.19	1500	37.20	2.21
	4.0.12	1600	42.20	1.33
	4.0.1	1700	44.20	1.21
	4.0.1	1800	45.12	11.18
	4.5.14	1900	47.10	1.51
	4.4.20	2000	52.20	1-3.30
	4.4.1	2100	53.20	58.41
	4.3.24	2200	56.31	53.29
		2300	11.20.11	46.02
		2400	02.30	39.55

Stoppel net. bothe.

2500	05.25	35.39
2600	08.01	30.53
2700	15.45	25.48
2800	15.45	22.30
2900	18.39	19.15
3000	21.41	15.53
3100	11.24-10 11.27-05	11.55
3200	29.55	12.07.42
3300		
3400		
3500		
3600		
3700		
3800		
3900		
4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No. *AA2* <sup>cont</sup> Date *Aug 27, 1897*  
 Machine. Reel.

Turns *500* Cor. + Depth

Shot or lead *60 Lb.*

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *Bottom trawl, 15' long*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>3</i> 17.20	12.30
		100	21.40	03.20
		200	25.16	05.40
		300	28.34	4- 02.
		400	32.08	51.13
		500	35.41	3- 54.10
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*350 fms.  
to surface*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Ad 2* *Contd* Date *Aug 27, 1899*

Machine. Reel. *0*

Turns *150* Cor. + Depth

Shot or lead *60 Lb.*

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *Intermediate Lbr*

SOUNDING WIRE.		TURNS.	DREDGE / ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>4- 19.10</i>	<i>46.05</i>
		100	<i>23.16</i>	<i>42.30</i>
		<i>50</i>	<i>25-</i>	<i>4- 39.26</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*100 fms to Surface*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *300* Date *Aug 25, 1899*

Machine. Reel

Turns *350* Cor. + DepthShot or lead *60 Lbs.*

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *Long line & Gill*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

*3-24.25*  
*30.05**15.15* { *26.40*  
*26.15*

100

*34.17**11.52*

200

*37.33**8.27*

300

*40.35**5.05**50*  
400*42.09**4-3.09*

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Long line & Gill*  
*Surface*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

# Correction Table

## Built-up Reel

No. \_\_\_\_\_ Date \_\_\_\_\_

Machine. \_\_\_\_\_ Reel. \_\_\_\_\_

Turns \_\_\_\_\_ Cor. + \_\_\_\_\_ Depth \_\_\_\_\_

Shot or lead \_\_\_\_\_

Bottom \_\_\_\_\_

Bottom temperature \_\_\_\_\_

No. of thermometer \_\_\_\_\_ Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air \_\_\_\_\_ Surface \_\_\_\_\_ Drift \_\_\_\_\_

Trawl or dredge \_\_\_\_\_

### SOUNDING WIRE.

### TURNS.

### DREDGE ROPE.

### DOWN.

### UP.

0	0	0	1250	1171.5
50	46	100	1300	1219.5
100	92.5	200	50	1267
50	138.5	300	1400	1314
200	186	400	50	1362
50	232	500	1500	1409.5
300	278.5	600	50	1457
50	325.5	700	1600	1505
400	371	800	50	1552.5
50	418	900	1700	1600.5
500	465.5	1000	50	1648
50	512	1100	1800	1696.5
600	559	1200	50	1744
50	606	1300	1900	1792
700	653	1400	50	1840
50	700.5	1500	2000	1888
800	747	1600	50	1936.5
50	794	1700	2100	1985.5
900	841	1800	50	2032
50	888	1900	2200	2081
1000	935	2000	50	2129
50	982	2100	2300	2177.5
1100	1029	2200	50	2226.5
50	1077	2300	2400	2275.5
1200	1124	2400	50	2322.5

2500	2371	2500	
50	2420		
2600	2469	2600	3250
50	2517.5	2700	3400
2700	2567	2800	50
50	2616	2900	3500
2800	2654.5	3000	50
50	2713	3100	3600
2900	2762.5	3200	50
50	2812	3300	3700
3000		3400	50
50		3500	3800
3100		3600	
50		3700	
3200		3800	
50		3900	
3300		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



No. *1114* Date *Aug 29 1899*  
*Sigsbee* Machine. Reel. *Small*  
 Turns *2496* Cor. + *132* Depth *2628 fms*  
 Shot or lead *60*  
 Bottom *gy. m. ooze (M. ann.)*  
 Bottom temperature *35.5*  
 No. of thermometer *76521* Cor. - *0.4*  
 Corrected temperature *34.6*  
 Air *69* Surface *69* Drift  
 Trawl or dredge *Intermediate* *Obu*

## SOUNDING WIRE.

DOWN.	UP.	TURNS.
10.30	9.00.00	0
11.30	07.50	100
12.30	06.50	200
13.30	05.55	300
14.30	05.02	400
15.30	04.02	500
16.30	03.05	600
17.30	02.05	700
18.30	01.05	800
19.30	00.07	900
20.30	59.07	1000
21.30	58.05	1100
22.30	57.05	1200
23.30	56.15	1300
24.30	55.24	1400
25.30	54.32	1500
26.30	53.35	1600
27.30	52.35	1700
28.30	51.35	1800
29.30	50.35	1900
30.30	49.35	2000
31.30	48.30	2100
32.30	47.30	2200
33.30	46.30	2300
34.30	45.30	2400

## DREDGE ROPE.

DOWN.	UP.
0 21.30	10.33.00
28.00	35.05
30.00	31.60
32.30	28.50
34.30	25.50
36.30	22.50
38.30	19.30
40.30	16.05
42.30	12.40
500 fms. to surface	

*Turns*  
*425 fms. to surface*  
*425 fms. to surface*

8.29.20	8435	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Time started 12 hours the summer  
 Surface 9.35.  
 " " 10.00  
 " " 10.03  
 " " 10.11

No.

Date

Machine.

Reel.

Turns 60 Cor. + 134 Depth 2740 fms.

Shot or lead 60 pound

Bottom Brown ooze (volcanic)

Bottom temperature 35.0

No. of thermometer 78521 Cor. - 0.0

Corrected temperature 34.6

Air 68 Surface 70 Drift =

Trawl or dredge Intermediate Trawl

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

6:12 =	7.16.10	0	8-13.50	48.30
13.03	15.14	100	15.40	45.28
13.48	14.40	200	22.40	8-42.25
14.33	14. =	300		
15.25	13.20	400	15.00 fms.	
16.13	12.15	500	Surface -	
17.05	11.07	600		
18.21	10.01	700		
19.20	09.07	800		
20.10	08.10	900		
21.20	07.15	1000		
22.24	06.20	1100		
23.24	05.24	1200		
24.31	04.27	1300		
25.36	03.27	1400		
26.44	02.25	1500		
27.50	7.11.14	1600		
28.55	58.14	1700		
29.17	57.38	1800		
30.30	06.36	1900		
31.47	05.24	2000		
32.57	04.17	2100		
34.30	52.59	2200		
36.54	51.34	2300		
38.21	50.09	2400		

*ans*  
*6.51*  
*6.51*  
*OK*  
*10/12*  
*10/12*

	2500		
	2600		
	2700		
	2800	36.57	143
	2900	2606	9
	3000	1051	134
	3100		2606
	3200		2740
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*6.51*  
*6.51*  
*OK*  
*10/12*  
*10/12*  
*Interruption at 1. 13.55*  
*" " in 8-48-30*

No. *AA 6* Date *Aug. 21 99*  
 Machine. Reel. *Sigsbee*

Turns. Cor. + Depth

Shot ~~or lead~~ *60 lb.*

Bottom

Bottom temperature

No. of thermometer *76521* Cor.

Corrected temperature

Air Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

36.57

143

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

Two samples taken from 20 fathoms, Low  
 water to 50 fms. Sounding cup  
 + 60 fms. but 2 in. of air, Small fish  
 and 4 specimens of *Stomatopoda*  
 Benth. Buried in mud.

Station 0.2. 85 2

No. 1 A. 6 Date July 21, 1899  
 Machine. Reel. Sigsbee  
 Turns 2676 Cor. + 134 Depth 2810 fms.  
 Shot or lead 60 lb  
 Bottom gy. s. m. gy. s. m.  
 Bottom temperature 17.5  
 No. of thermometer 175 Cor.  
 Corrected temperature  
 Air 66 Surface 75 Drift  
 Trawl or dredge 10' 90'

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1. 00	21. 00	0	1. 00	21. 00
1. 10	20. 55	100	1. 10	20. 55
1. 20	20. 50	200	1. 20	20. 50
1. 30	20. 45	250	1. 30	20. 45
1. 40	20. 40	300	1. 40	20. 40
1. 50	20. 35	400	1. 50	20. 35
2. 00	20. 30	500	2. 00	20. 30
2. 10	20. 25	600	2. 10	20. 25
2. 20	20. 20	700	2. 20	20. 20
2. 30	20. 15	800	2. 30	20. 15
2. 40	20. 10	900	2. 40	20. 10
2. 50	20. 05	1000	2. 50	20. 05
3. 00	20. 00	1100	3. 00	20. 00
3. 10	19. 55	1200	3. 10	19. 55
3. 20	19. 50	1300	3. 20	19. 50
3. 30	19. 45	1400	3. 30	19. 45
3. 40	19. 40	1500	3. 40	19. 40
3. 50	19. 35	1600	3. 50	19. 35
4. 00	19. 30	1700	4. 00	19. 30
4. 10	19. 25	1800	4. 10	19. 25
4. 20	19. 20	1900	4. 20	19. 20
4. 30	19. 15	2000	4. 30	19. 15
4. 40	19. 10	2100	4. 40	19. 10
4. 50	19. 05	2200	4. 50	19. 05
5. 00	19. 00	2300	5. 00	19. 00
5. 10	18. 55	2400	5. 10	18. 55





Recl. /

Trawl ~~is~~ dredge. I trawled open.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.04	9.19	0	6.17	11.21
	5.51	100	5.52	11.25
	7.25	200	5.58	11.30
06.22	6.45	250	5.55	11.35
07.13	5.55	300		
	5.25	400		
	4.55	500	150 fms to	
	4.15	600	surface -	
09.01	3.30	700		
10.01	2.50	800		
	1.29	900		
	4.55	1000		
	5.25	1100		
	5.55	1200		
	5.55	1300		
16.30	56.27	1400		
17.33	54.17	1500		
1.39	52.04	1600		
19.49	52.58	1700		
20.56	51.45	1800		
22.09	50.11	1900		
23.25	49.14	2000		
	48.09	2100		
		2200		
	5.50	2300		
	4.55	2400		



Temperature Wire on

No. H. 23 Date 1<sup>st</sup> Sept 1911

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Measure	0	0 0	625	633
25	25	0 100 9	50	59
50	50	0 200 10	75	85
75	75	0 300 11	700	711
100	100	0 400 12	25	37
	75	0 500 13	50	63
5	50	0 600 14	75	89
75	76	1 700 15	800	815
200	201	1 800 16	75	41
25	26	1 900 17	50	67
50	51	1 1000 18	75	93
75	76	1 1100 19	700	711
300	302	2 1200 20	25	46
25	27	2 1300 21	50	71
50	52	2 1400 22	75	97
75	77	2 1500 23	1000	1023
400	403	3 1600 24	25	49
25	78	3 1700 25	50	75
50	79	3 1800 26	75	101
75	79	3 1900 27	1100	28
500	500	4 2000 28	25	55
25	30	4 2100 29	50	82
50	55	4 2200 30	60	1207
75	79	4 2300		
600	607	7 2400		

*Station Cast - 5000 fms -*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

# Comparison Table

No. *Sigsbee* Machine. *X* 1 Reel. *Built-up*

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Sigsbee</i>	<i>Machine</i>	0		
100	10	100 55	100	25
	201	200 55	200	260
	302	300 55	300	360
	403	400 75	400	460
	505	500 75	500	560
600	605	600 1	600	660
700	709	700 7	700	760
	811	800 55	800	860
900	913	900 55	900	960
1000	1016	1000 55	1000	1060
1100	1118	1100 55	1100	1160
1200	1221	1200 55	1200	1260
1300	1320	1300 10	1300	1360
1400	1420	1400 55	1400	1460
1500	1520	1500 10	1500	1560
1600	1624	1600 15	1600	1660
1700	1728	1700 15	1700	1760
1800	1829	1800 15		
1900	1931	1900 15		
2000	2032	2000 15		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	41.50	7111		
50	2.00	"		
100	26.20	"		
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. .... Date *Sept 1*

Machine. .... Reel.

Turns .... Cor. + .... Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer .... Cor.

Corrected temperature

Air .... Surface .... Drift

Trawl or dredge *1 mi*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

*Surf temp. 82.5 F. at 1000 fms.*



507

Lat. Long. 34.

No. *A. A. 8* Date *Sept 15*

Machine. *#1* Reel. *Built up*

Turns *22* Cor. + *22* Depth *44*

Shot or lead *60 pound*

Bottom *gy. s. sh.*

Bottom temperature

No. of thermometer *78522* Cor.

Corrected temperature

Air *71* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>15</i>	<i>07.30</i>	0		
	<i>06.30</i>	100		
<i>02.00</i>	<i>05.30</i>	200		
	<i>04.30</i>	300		
	<i>03.40</i>	400		
	<i>02.50</i>	500		
<i>01.50</i>	<i>01.57</i>	600		
	<i>01.04</i>	700		
<i>01.10</i>	<i>00.14</i>	800		
<i>00.20</i>	<i>00.24</i>	900		
	<i>00.35</i>	1000		
<i>00.30</i>	<i>00.46</i>	1100		
<i>00.40</i>	<i>00.56</i>	1200		
<i>00.50</i>	<i>01.07</i>	1300		
<i>01.00</i>	<i>01.30</i>	1400		
<i>14.10</i>	<i>01.46</i>	1500		
<i>15.20</i>	<i>01.55</i>	1600		
<i>16.30</i>	<i>02.09</i>	1700		
<i>17.40</i>	<i>02.20</i>	1800		
<i>18.50</i>	<i>02.32</i>	1900		
<i>19.10</i>	<i>02.47</i>	2000		
<i>20.20</i>	<i>02.57</i>	2100		
<i>21.30</i>	<i>03.17</i>	2200		
<i>22.40</i>	<i>03.44</i>	2300		
<i>23.50</i>	<i>04.01</i>	2400		

*pin*

26.40	3330	2500		
27.36	3200	2600		
28	8.31.20	2624		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	35.5	1.5
		3300	21.2	1.5
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

*Test thermometer, 78522.  
Sling line sounding out.*

Pat Log 546

No. 9 Date Sept 2 1894

Machine. Reel. Built up -

Turns 255 Cor. + 146 Depth 3693 fms.

Shot or lead 60 lb. OK

Bottom H.C.S.

Bottom temperature.

No. of thermometer 78521 Cor.

Corrected temperature

Air 72 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4-20	42.3	0		
4-15	43.11	100		
5-00	43.50	200		
5-45	41.30	300		
6-35	42.04	400		
7-37	39.45	500		
8-23	39.15	600		
9-5	37.56	700		
10-12	37.02	800		
11-34	36.0	900		
12-25	35.5	1000		
13-10	34.20	1100		
14-08	33.21	1200		
15-18	32.13	1300		
16-21	31.08	1400		
17-23	29.5	1500		
18-31	28.41	1600		
19-38	27.23	1700		
20-46	26.03	1800		
21-55	24.88	1900		
23-04	23.13	2000		
24-18	21.45	2100		
25-27	20.25	2200		
26-34	18.55	2300		
27-53	17.10	2400		

14.	3	27.12	15 <sup>54</sup>	46.31	2500	
	57	30.30	14 <sup>21</sup>	43.27	2600	
	58	31.51	13 <sup>55</sup>	41.40	2700	
	530	33.08	12	37.51	2800	
		33.20	4	37.30	2857	
	1.05				2900	
					2930	
	5	5.15			3000	
			5	10.30	2857	
					3100	
					3200	
					3300	
					3400	
					3500	3645
					3600	2357
					3700	786
					3800	
					3900	
					4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

4-5.10 Stopped hauling in  
 4-55.45 Commenced hauling again  
 5-5.15 bottom  
 5-10.30 Commenced hauling in  
 Lost every thing. no more  
 Cut off 30 fms. wire.

509.70.

No. 10  
Sigsbee

Date

Machine. Reel.

Turns 2942 Cor. + 146

Depth 3088 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer 69481 Cor.

Corrected temperature

Air 81 Surface 78 Drift

Trawl or dredge 5 ft

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0		15
	11.20			13.50
	11.10	100		34.45
	11.00	150	23.25	31.45
	10.50	200	25.15	33.35
	10.40	250	27.05	35.20
	10.30	300	28.55	37.05
	10.20	350	30.45	38.50
	10.10	400	32.35	40.35
	10.00	450	34.25	42.20
	9.50	500	36.15	44.05
	9.40	550	38.05	45.50
	9.30	600	39.55	47.35
	9.20	650	41.45	49.20
	9.10	700	43.35	51.05
	9.00	750	45.25	52.50
	8.50	800	47.15	54.35
	8.40	850	49.05	56.20
	8.30	900	50.55	58.05
	8.20	950	52.45	59.50
	8.10	1000	54.35	61.35
	8.00	1050	56.25	63.20
	7.50	1100	58.15	65.05
	7.40	1150	60.05	66.50
	7.30	1200	61.55	68.35
	7.20	1250	63.45	70.20
	7.10	1300	65.35	72.05
	7.00	1350	67.25	73.50
	6.50	1400	69.15	75.35
	6.40	1450	71.05	77.20
	6.30	1500	72.55	79.05
	6.20	1550	74.45	80.50
	6.10	1600	76.35	82.35
	6.00	1650	78.25	84.20
	5.50	1700	80.15	86.05
	5.40	1750	82.05	87.50
	5.30	1800	83.55	89.35
	5.20	1850	85.45	91.20
	5.10	1900	87.35	93.05
	5.00	1950	89.25	94.50
	4.50	2000	91.15	96.35
	4.40	2050	93.05	98.20
	4.30	2100	94.55	100.05
	4.20	2150	96.45	101.50
	4.10	2200	98.35	103.35
	4.00	2250	100.25	105.20
	3.50	2300	102.15	107.05
	3.40	2350	104.05	108.50
	3.30	2400	105.55	110.35

My dear friend

I have received your letter of the 14th

and am glad to hear from you

and hope you are well

Yours truly



No. *A.A. 11* Date *3 Sept 1907*  
*Sigsbee* Machine. # *1* Reel. *Brick*  
 Turns *2510* Cor. + *136* Depth *2646 fms.*  
 Shot or lead *60 lb.*  
 Bottom *LT. Brown Co. gy. M. S.*  
 Bottom temperature *75.0*  
 No. of thermometer *50465* Cor.  
 Corrected temperature  
 Air *73* Surface *79* Drift  
 Trawl or dredge

# SOUNDING WIRE.

DOWN.

UP.

TURNS.

# DREDGE ROPE.

DOWN.

UP.

<i>10.20</i>	<i>13.10</i>	0
<i>11.22</i>	<i>11.50</i>	100
<i>12.45</i>	<i>10.50</i>	200
<i>13.30</i>	<i>09.50</i>	300
<i>14.21</i>	<i>08.40</i>	400
<i>15.22</i>	<i>07.35</i>	500
<i>16.10</i>	<i>06.50</i>	600
<i>17.01</i>	<i>05.41</i>	700
<i>18.15</i>	<i>04.35</i>	800
<i>19.05</i>	<i>03.30</i>	900
<i>20.17</i>	<i>01.25</i>	1000
<i>21.25</i>	<i>00.20</i>	1100
<i>22.30</i>	<i>59.20</i>	1200
<i>23.40</i>	<i>58.25</i>	1300
<i>24.51</i>	<i>57.00</i>	1400
<i>26.01</i>	<i>55.50</i>	1500
<i>27.07</i>	<i>54.45</i>	1600
<i>28.10</i>	<i>53.30</i>	1700
<i>29.31</i>	<i>52.25</i>	1800
<i>30.42</i>	<i>51.30</i>	1900
<i>31.54</i>	<i>50.00</i>	2000
<i>33.05</i>	<i>48-45</i>	2100
<i>34.20</i>	<i>47.30</i>	2200
<i>35.35</i>	<i>46.15</i>	2300
<i>36.51</i>	<i>45.00</i>	2400



9. 38.08	42.50	2500		
39.05	42.30	2510		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
3607	158	3200	3607	158
2510	17	3300	2510	17
1097	736	3400	1097	136
	2510	3500		2510
	2510	3600		2510
		3700		
		3800		
		3900		
		4000		

968

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	at 10			
50	at 10			
100	wire to test its strength			
200	at 11 26			
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Commenced towing 9-10<sup>30</sup>  
 towing in 9-47<sup>30</sup>  
 10-11.13  
 Time 1 hr 55 mins  
 Thermometer failed to register

*Pat Log*

No.

Date

*Sigsbee* Machine. # *1* Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
71				
746 25	75.6	80466		
772 50	75.7	80470		
673 100	55.8	80451		
575 200	48.8	92456		
478 300	48.1	92445		
381 400	48.	92443		
281 500	76.5	50474		
181 600	76.5	80478		
81 700	76.9	80454		
81 800	76	80485		
700				
1000				

REMARKS:

Down 1 32 <sup>20</sup> 51  
Up 11- 49 <sup>51</sup> 2

Box Log, 61, 2

No.

10

Date

Sept 10 1911

Machine.

Reel.

Turns

Cor. +

141

Depth

2883

Shot or lead

Bottom

Radio-lucan

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

	43.00	0		10.00.00
	44.10	100		10.05.10
	45.20	200		10.10.20
	46.30	300		10.15.30
	47.40	400		
	48.50	500		
	49.50	600		
43.15	37.50	700		
44.15	36.50	800		
45.15	36.00	900		
46.15	35.00	1000		
47.20	33.50	1100		
48.25	32.40	1200		
49.30	31.30	1300		
50.40	30.15	1400		
51.50	29.00	1500		
	27.45	1600		
	26.30	1700		
52.00	25.10	1800		
53.10	23.50	1900		
54.20	22.35	2000		
55.30	21.15	2100		
56.40	20.00	2200		
57.50	18.40	2300		
59.00	17.15	2400		

9.1.00	16.45	2500		
06.40	14.42	2600		
08.15	12.40	2700		
9.17.00	9.17.00	2800		
		2900		
		3000		
		3100	3603	10.3
		3200	3742	10.3
		3300	<u>861</u>	1.41
		3400		3742
		3500		<u>2883</u>
		3600		
		3700		
		3800		
		3900		
		4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Just before taking...  
links in wire... H pps. and  
make preparations for taking a sound

10.15  
10.20

No. 1

Date 11 15 190

Machine. 2 Reel. 1

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

Siaphu	Machine	0 8	1250	58
150	50 48	100 9	1300	1309
100	100 98	200 10	50	60
1	200 48	300 11	1400	
200	200 98	400 12	50	60
100	50 48	500 11	1500	1501
	200 99	600 15	50	60
	50 48	700 17	1600	16
400	400 98	800 19	50	1
	400 98	900 21	1700	
	500 98	1000 22	50	7
		1100		
	600 98	1200 26	5	
		1300		
	700 98	1400 30	50	80
	51	1500 31		
	800 98	1600 33	50	
	52	1700 35	2100	2135
	900 98	1800		
		1900		
		2000		
200	50 48	2100 40		
1100	1100 5	2200 41		
		2300		
1200	1200 7	2400 50	50	2507

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

*Continued*  
SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

4 Sept 1911

Machine.

Reel.

Turns

Cor. +

Depth

1000

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

Surface net

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
75				
50				
100				
200				
300				
400				
500				
600				
700				2.15
800				
900				
1000				

REMARKS:

Put up over at 7.00  
 Hauled in " 8.17  
 Put over again 8.48  
 Hauled in 9.03

507

SOUNDING WIRE.		TURNS,	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9-20	15.30	0	9-20.0	15.10
10-25	16.40	100	30.35	06.40
11-53	17.50	200	32.00	07.20
12-40	19.10	300	33.25	08.20
13-45	20.30	400	34.50	09.10
14-55	21.40	500	36.15	10.00
15-20	22.55	600	37.40	10.40
16-18	24.10	700	39.05	11.20
17-15	25.20	800	40.30	12.00
18-10	26.30	900	41.55	12.40
19-17	27.40	1000	43.20	13.20
20-15	28.50	1100	44.45	14.00
21-20	29.55	1200	46.10	14.40
22-31	31.00	1300	47.35	15.20
23-41	32.05	1400	49.00	16.00
24-50	33.10	1500	50.25	16.40
26-10	34.15	1600	51.50	17.20
27-11	35.20	1700	53.15	18.00
28-20	36.25	1800	54.40	18.40
29-50	37.30	1900	56.05	19.20
31-05	38.35	2000	57.30	20.00
32-25	39.40	2100	58.55	20.40
33-45	40.45	2200	60.20	21.20
		2300	61.45	22.00
		2400	63.10	22.40

35.10	38.20	2500	48.20	51.00
35.40	38.20	2600	46.20	51.10
		2700	44.50	51.20
		2800	43.20	51.30
		2900	41.50	51.40
		3000	40.50	51.50
		3100	39.40	52.00
		3200	38.10	52.10
		3300	36.50	52.20
		3400	35.50	52.30
		3500	34.50	52.40
		3600	33.10	52.50
		3700	31.50	53.00
		3800	30.50	53.10
		3900	29.30	53.20
		4000	28.00	53.30

3603  
 2503  
 1150  
 153  
 16  
 137  
 153  
 2670

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Commenced lowering 8-525  
 Heaving 8-5320  
 In 8-2710 Fathoms 10-35 55 ft  
 The moment the  
 9-2710  
 Depth 10-16<sup>10</sup> fms S. in 23<sup>50</sup> fms  
 surf and then

No. *574*Date *Sept 5-97*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE:

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

<i>Crab</i>			<i>8.08 AM</i>	
<i>Shrimp</i>			<i>8.29 AM</i>	
<i>Time 21</i>				
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Lat. Log. 35.8.

No. *44* Date *Sept 7 1880*

Machine. *1* Reel. *12*

Turns *2637* Cor. + *137* Depth *2774 fms*

Shot or lead *06*

Bottom *Light grey mud*

Bottom temperature

No. of thermometer *80466* Cor. *7.5*

Corrected temperature

Air *83* Surface *82* Drift

Trawl or dredge *15 fms open*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

*3*

*11.25*

*0*

*51-05*

*27.10*

*4*

*11.30*

*100*

*55*

*20*

*10*

*11.35*

*200*

*58.40*

*22.10*

*20*

*11.40*

*300*

*10 -*

*10.20.25*

*30*

*11.45*

*400*

*40*

*11.50*

*500*

*150 fms. and*

*50*

*11.55*

*600*

*to surface*

*60*

*12.00*

*700*

*70*

*12.05*

*800*

*80*

*12.10*

*900*

*90*

*12.15*

*1000*

*100*

*12.20*

*1100*

*110*

*12.25*

*1200*

*120*

*12.30*

*1300*

*130*

*12.35*

*1400*

*140*

*12.40*

*1500*

*150*

*12.45*

*1600*

*160*

*12.50*

*1700*

*170*

*12.55*

*1800*

*180*

*13.00*

*1900*

*190*

*13.05*

*2000*

*200*

*13.10*

*2100*

*210*

*13.15*

*2200*

*220*

*13.20*

*2300*

*230*

*13.25*

*2400*

*240*

*13.30*

*2500*

*250*

*13.35*

*2600*

*260*

*13.40*

*2700*

*270*

*13.45*

*2800*

*280*

*13.50*

*2900*

*290*

*13.55*

*3000*

*300*

*14.00*

*3100*

*310*

*14.05*

*3200*

*320*

*14.10*

*3300*

*330*

*14.15*

*3400*

*340*

*14.20*

*3500*

*350*

*14.25*

*3600*

*360*

*14.30*

*3700*

*370*

*14.35*

*3800*

*380*

*14.40*

*3900*

*390*

*14.45*

*4000*

*400*

*14.50*

*4100*

*410*

*14.55*

*4200*

*420*

*15.00*

*4300*

*430*

*15.05*

*4400*

*440*

*15.10*

*4500*

*450*

*15.15*

*4600*

*460*

*15.20*

*4700*

*470*

*15.25*

*4800*

*480*

*15.30*

*4900*

*490*

*15.35*

*5000*

*500*

*15.40*

*5100*

*510*

*15.45*

*5200*

*520*

*15.50*

*5300*

*530*

*15.55*

*5400*

*540*

*16.00*

*5500*

*550*

*16.05*

*5600*

*560*

*16.10*

*5700*

*570*

*16.15*

*5800*

*580*

*16.20*

*5900*

*590*

*16.25*

*6000*

*600*

*16.30*

*6100*

*610*

*16.35*

*6200*

*620*

*16.40*

*6300*

*630*

*16.45*

*6400*

*640*

*16.50*

*6500*

*650*

*16.55*

*6600*

*660*

*17.00*

*6700*

*670*

*17.05*

*6800*

*680*

*17.10*

*6900*

*690*

*17.15*

*7000*

*700*

*17.20*

*7100*

*710*

*17.25*

*7200*

*720*

*17.30*

*7300*

*730*

*17.35*

*7400*

*740*

*17.40*

*7500*

*750*

*17.45*

*7600*

*760*

*17.50*

*7700*

*770*

*17.55*

*7800*

*780*

*18.00*

*7900*

*790*

*18.05*



9.56.33	11	2500		
0.4.23	11	2600		
08.10	2-11-06	2700	26.0	1.0
		2800		
		2900		
		3000		
		3100		
		3200	26.0	1.0
		3300	26.0	1.0
		3400	26.0	1.0
		3500		
		3600		27.6
		3700		
		3800	26.0	1.0
		3900	26.0	1.0
		4000	26.0	1.0

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Thermometer tripped during  
 immediate net over at 10.29.  
 Surface net at 10.30  
 " " " 10.18

J. M. H.

No. *P. H.*

Date *Sept 7-94*

Machine. Reel.

Turns Cor. + Depth *Surface*

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *Surface Trawl Net*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Over</i>	<i>at</i>	0	<i>8.01</i>	<i>2 M.</i>
		100		
		200		
<i>Hauled in</i>	<i>at</i>	300	<i>8.21</i>	<i>0.7 M.</i>
<i>Time</i>		201	<i>Minutes</i>	
		500		
		600		
<i>Used dip net with netting line on the side from 8.22 until 8.40 AM</i>		700		
		800		
		900		
		1000		
		1100		
<i>Time</i>		1200	<i>1.5 Min</i>	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500		
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *N. O. 15* Date *Sept 8 1894*  
Machine. *#1* Reel. *Drift 1/2*  
Turns *2445* Cor. + *135* Depth *2583 fms.*  
Shot or lead *60* *OK*  
Bottom *Grey Silt. & fine sand*  
Bottom temperature *74.6*  
No. of thermometer *61764* Cor. ....  
Corrected temperature  
Air *72* Surface *79* Drift  
Trawl or dredge *Submersible*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*18.30*

*14.40*

0

*9 49.10*

*24.30*

*19.25*

*13.40*

100

*52.20*

*22.10*

*20.05*

*12.45*

200

*56.40*

*19.00*

*20.50*

*11.50*

300

*58.10*

*10.50*

*21.30*

*10.55*

400

*22.25*

*10.00*

500

*150 fms. and*

*23.24*

*09.10*

600

*to surface*

*24.20*

*08.20*

700

*25.17*

*07.30*

800

*26.15*

*06.40*

900

*27.10*

*05.50*

1000

*28.00*

*04.50*

1100

*29.08*

*03.40*

1200

*30.15*

*02.35*

1300

*31.15*

*01.30*

1400

*32.20*

*00.20*

1500

*33.30*

*59.12*

1600

*34.35*

*58.00*

1700

*35.40*

*57.40*

1800

*36.50*

*56.20*

1900

*38.15*

*55.00*

2000

*39.40*

*53.30*

2100

*41.00*

*52.05*

2200

*42.25*

*50.25*

2300

*44.10*

*48.30*

2400

5-415

		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
81.00	153	3300	36.00	103
24.23	15	3400	2.15	18
150	735	3500	1.00	1.00
	24.23	3600		
	25.83	3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Intermediate Net run at 9.48.10  
 " " " 10.24.50  
 Surface Net run at 10.00  
 " " " 10.15  
 One bag of fish taken  
 but did not count it as being

No.

Date

Sept 8 '90

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

Surface tow net.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200	3° 28'	N
		300	136° 54'	W
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

11 " at 801  
 11 " m at 821

No. *B. B. 16* Date *7 Sept 99*  
*Sigsbee* Machine. *#1* Reel *Brass 44#1*  
 Turns *2309* Cor. + *131* Depth *2440 fms*  
 Shot or lead *68 lbs* *OK*  
 Bottom *W. gy. m. s.* *HC*  
 Bottom temperature *55.50-57.00*  
 No. of thermometer *55470* *30.70°* Cor.  
 Corrected temperature  
 Air *52* Surface *73* Drift  
 Trawl or dredge *Intermediate open*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

	05.38	0	9-16.12	10.20.10	
10.41	04.03	100	11.55	57.25	
11.23	02.56	200	23.15	56.00	
12.25	01.50	300	25.15	51.20	
13.27	00.37	350	27.20	49.35	
14.10	59.35	400			
15.00	58.00	500			
16.00	57.35	600			
17.00	56.30	700			
18.00	55.35	800			
19.00	54.41	900			
20.00	53.34	1000			
21.00	52.30	1100			
22.00	51.28	1200			
23.00	50.28	1300			
24.00	49.10	1400			
25.00	48.00	1500			
26.15	46.45	1600			
27.35	45.10	1700			
28.45	43.45	1800			
30.01	42.20	1900			
31.25	41.10	2000			
32.45	39.30	2100			
34.15	36.40	2200			
35.50	36.08	2300			
36.00		2400			

250 fms. and  
 to surface.



		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
3613	153	3300	3613	153
2307	22	3400	2307	22
		3500	<u>2307</u>	<u>22</u>
1274	131	3600	1274	131
	2307	3700		2307
	440	3800		440
		3900		
		4000		

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Surface temp at 9-43  
 " " " " 9-43

No. *111*Date *Sept 7 1897*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

*Cammer Inter*

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

*7.15**28.0*

100

*7.20**29.0*

200

*7.25**21.0*

300

*7.28.05**19.0*

400

*31.50**13.0*

500

*35.20**8.10 =*

600

700

*10.45**34*

800

*137° 36 28*

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Worked at 350 fms. depth  
then sent down messenger  
to 350 - which it did  
fairly; it  
satisfactory  
Open part to surface  
18 min alt*



No. *117* Date *10 Sept 77*

Machine. *Reel*

Turns *2330* Cor. + *130* Depth *2460*

Shot or lead *60*

Bottom *gy. m.*

Bottom temperature *45.9-47.0*

No. of thermometer *50472* Cor.

Corrected temperature

Air *79* Surface *79* Drift

Trawl or dredge *Agassiz beam trawl*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>6. 10. 00</i>	<i>14.30</i>	0	<i>7. 20. 00</i>	<i>15. 30</i>
<i>23. 10</i>	<i>13. 18</i>	100	<i>26. 40</i>	<i>17. 00</i>
<i>24. 25</i>	<i>12. 47</i>	200	<i>29. 03</i>	<i>16. 10</i>
<i>25. 40</i>	<i>11. 30</i>	300	<i>31. 20</i>	<i>13. 00</i>
<i>27. 00</i>	<i>10. 43</i>	400	<i>34. 00</i>	<i>10. 10</i>
<i>28. 20</i>	<i>09. 50</i>	500	<i>35. 50</i>	<i>07. 10</i>
<i>29. 40</i>	<i>08. 00</i>	600	<i>37. 50</i>	<i>04. 10</i>
<i>31. 00</i>	<i>07. 05</i>	700	<i>40. 20</i>	<i>12. 20</i>
<i>32. 20</i>	<i>06. 10</i>	800	<i>42. 20</i>	<i>57. 10</i>
<i>33. 40</i>	<i>05. 10</i>	900	<i>45. 15</i>	<i>53. 50</i>
<i>35. 00</i>	<i>04. 05</i>	1000	<i>48. 50</i>	<i>50. 00</i>
<i>36. 20</i>	<i>04. 00</i>	1100	<i>51. 20</i>	<i>46. 10</i>
<i>37. 40</i>	<i>03. 57</i>	1200	<i>53. 50</i>	<i>42. 00</i>
<i>39. 00</i>	<i>03. 50</i>	1300	<i>56. 20</i>	<i>38. 00</i>
<i>40. 20</i>	<i>03. 40</i>	1400	<i>58. 50</i>	<i>34. 00</i>
<i>41. 40</i>	<i>03. 30</i>	1500	<i>61. 20</i>	<i>30. 00</i>
<i>43. 00</i>	<i>03. 20</i>	1600	<i>63. 50</i>	<i>27. 00</i>
<i>44. 20</i>	<i>03. 10</i>	1700	<i>66. 20</i>	<i>24. 00</i>
<i>45. 40</i>	<i>03. 00</i>	1752	<i>68. 50</i>	<i>21. 00</i>
<i>47. 00</i>	<i>02. 50</i>	1800	<i>71. 20</i>	<i>18. 00</i>
<i>48. 20</i>	<i>02. 40</i>	1900	<i>73. 50</i>	<i>15. 00</i>
<i>49. 40</i>	<i>02. 30</i>	2000	<i>76. 20</i>	<i>12. 00</i>
<i>51. 00</i>	<i>02. 20</i>	2100	<i>78. 50</i>	<i>09. 00</i>
<i>52. 20</i>	<i>02. 10</i>	2200	<i>81. 20</i>	<i>06. 00</i>
<i>53. 40</i>	<i>02. 00</i>	2300	<i>83. 50</i>	<i>03. 00</i>
<i>55. 00</i>	<i>01. 50</i>	2330	<i>86. 20</i>	<i>00. 00</i>
<i>56. 20</i>	<i>01. 40</i>	2400	<i>88. 50</i>	<i>57. 00</i>

470-17

3613 2330 <u>1273</u>  153 20 <u>133</u> 2330 <u>1463</u>		2500	31.27	56.45
		2600	30.20	53.10
		2700	37.50	49.30
		2800	40.50	45.30
		2900	44.25	40.30
		3000	48.3	35.20
		3100	52	31.10
		3200	55.45	27.10
		3300	57.41	23.25
		3400	59.15	19.50
		3500	64.30	15.10
		3600	66.17	
		3700	42.00	
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	Took haul for snot deep water.			
200				
300				
400				
500				
600	No Miller's similar things from case.			
700				
800				
900				
1000				

REMARKS:

1st 1/2 hr. temp. of thermometer 5047.  
 S. 22 Register caught, Register  
 and some lowering again 8. 07<sup>50</sup>  
 Lipped again 85-87 8. 14<sup>00</sup>  
 Register out of order, stopped  
 8. 17<sup>00</sup>  
 8. 31<sup>00</sup> 2. 20<sup>00</sup> 100 fms. from  
 100 fms. from 2nd haul 11. 00<sup>00</sup>

No. *18* Date *Sept 13 01*Machine. *#1* Reel. *Reult. 113*Turns *2342* Cor. + *133* Depth *2475*Shot or lead *60 lb.*Bottom *lt gray silt of*Bottom temperature *35.0*No. of thermometer *Miller-Casella* Cor.

Corrected temperature

Air *81* Surface *60* DriftTrawl or dredge *Intermediate beam,*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>23.21.30</i>			<i>0</i>	<i>9-32.20</i>	<i>10</i>	<i>24.20</i>
<i>24.35</i>	<i>25.50</i>	<i>100</i>		<i>36.10</i>		<i>21.4</i>
<i>25.25</i>	<i>24.45</i>	<i>200</i>		<i>38.15</i>		<i>19.15</i>
<i>26.15</i>	<i>23.45</i>	<i>300</i>		<i>40.05</i>		<i>16.30</i>
<i>27.10</i>	<i>22.45</i>	<i>400</i>		<i>41.05</i>		<i>13.35</i>
<i>28.05</i>	<i>21.40</i>	<i>500</i>		<i>42.10</i>		<i>10.30</i>
<i>29.00</i>	<i>19.45</i>	<i>550</i>		<i>43.20</i>	<i>10.08.45</i>	
<i>30.00</i>	<i>18.35</i>	<i>600</i>				
<i>31.00</i>	<i>17.30</i>	<i>700</i>				
<i>32.00</i>	<i>16.25</i>	<i>800</i>				
<i>33.00</i>	<i>15.20</i>	<i>900</i>				
<i>34.00</i>	<i>14.15</i>	<i>1000</i>				
<i>35.00</i>	<i>13.15</i>	<i>1100</i>				
<i>36.00</i>	<i>12.15</i>	<i>1200</i>				
<i>37.00</i>	<i>11.10</i>	<i>1300</i>				
<i>38.00</i>	<i>10.05</i>	<i>1400</i>				
<i>39.00</i>	<i>08.55</i>	<i>1500</i>				
<i>40.00</i>	<i>07.50</i>	<i>1600</i>				
<i>41.00</i>	<i>06.45</i>	<i>1700</i>				
<i>42.00</i>	<i>05.20</i>	<i>1800</i>				
<i>43.00</i>	<i>03.55</i>	<i>1900</i>				
<i>44.00</i>	<i>02.35</i>	<i>2000</i>				
<i>45.00</i>	<i>01.01</i>	<i>2100</i>				
<i>46.00</i>	<i>59.25</i>	<i>2200</i>				
<i>47.00</i>	<i>57.30</i>	<i>2300</i>				
<i>48.00</i>	<i>56.45</i>	<i>2400</i>				

*400 fms. and  
to surface.*

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
3608	153	3200	
2342	50	3300	
1261	133	3400	
	2342	3500	
	2475	3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

*Surface temp. 38.25*  
*at 55 fms. 38.25*  
*at 100 fms. 38.25*  
*at 150 fms. 38.25*  
*at 200 fms. 38.25*  
*at 250 fms. 38.25*  
*at 300 fms. 38.25*  
*at 350 fms. 38.25*  
*at 400 fms. 38.25*  
*at 450 fms. 38.25*  
*at 500 fms. 38.25*  
*at 550 fms. 38.25*  
*at 600 fms. 38.25*  
*at 650 fms. 38.25*  
*at 700 fms. 38.25*  
*at 750 fms. 38.25*  
*at 800 fms. 38.25*  
*at 850 fms. 38.25*  
*at 900 fms. 38.25*  
*at 950 fms. 38.25*  
*at 1000 fms. 38.25*

No.

Date

Machine.

Reel.

Depth

Shot ~~or lead~~

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

11-06.33	56.10	0
07.35	55.54	100
08.22	54.10	200
09.12	53.30	300
10.00	52.45	400
10.42	51.50	500
11.45	51.05	600
12.37	50.15	700
13.35	49.20	800
14.32	48.25	900
15.35	47.20	1000
16.40	46.20	1100
17.44	45.15	1200
18.45	44.05	1300
19.55	42.55	1400
21.05	41.35	1500
22.17	40.20	1600
23.27	39.15	1700
24.40	37.40	1800
25.54	36.15	1900
27.12	34.50	2000
28.30	33.15	2100
29.20	32.20	2200
		2300
		2400



		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100	3603	153
3603	153	3200	2162	28
2162	28	3300	1441	125
1441	125	3400		2162
	2162	3500		2087
	2387	3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *2220* Date *Sept 14 99*  
 Machine. *Reel*  
 Turns *214* Cor. + *125* Depth *2267*  
 Shot or lead *60 pound*  
 Bottom *fine yellow gy. m. s. gy. sil. m.*  
 Bottom temperature *25.5*  
 No. of thermometer *1111* Cor.  
 Corrected temperature  
 Air *79* Surface *79* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>22.10</i>	<i>3.11.45</i>	0		
<i>21.15</i>	<i>09.10</i>	100		
<i>23.00</i>	<i>08.15</i>	200		
<i>23.50</i>	<i>07.25</i>	300		
<i>24.50</i>	<i>06.35</i>	400		
<i>25.40</i>	<i>05.40</i>	500		
<i>26.45</i>	<i>04.55</i>	600		
<i>27.40</i>	<i>04.00</i>	700		
<i>28.45</i>	<i>03.05</i>	800		
<i>29.45</i>	<i>02.10</i>	900		
<i>30.55</i>	<i>01.15</i>	1000		
<i>32.00</i>	<i>3.10</i>	1100		
<i>33.10</i>	<i>59.15</i>	1200		
<i>34.20</i>	<i>58.00</i>	1300		
<i>35.35</i>	<i>56.55</i>	1400		
<i>36.55</i>	<i>55.45</i>	1500		
<i>38.15</i>	<i>54.30</i>	1600		
<i>39.25</i>	<i>53.25</i>	1700		
<i>40.55</i>	<i>52.15</i>	1800		
<i>42.00</i>	<i>51.00</i>	1900		
<i>43.25</i>	<i>49.50</i>	2000		
<i>44.55</i>	<i>47.30</i>	2100		
<i>45.50</i>	<i>47.00</i>	2200		
		2300		
		2400		

	2500	
	2600	
3603	2700	153
2142	2800	28
1461	2900	125
	3000	2142
	3100	2267
	3200	153
3603	3300	28
2142	3400	125
1461	3500	2142
	3600	2267
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Aug 26, 1899

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000	1/2	
		1100		
		1200		
		1300		
		1400	1	
		1500		
		1600	1	
		1700		
		1800	2	
		1900		
		2000		
		2100		
		2200	3 1/2	
		2300		
		2400	3 1/2	

		2500	
650	27.5	2600	7
		2700	
700	28.0	2800	7.5
		2900	
750	28.5	3000	8
		3100	
800	29.0	3200	8.5
		3300	
850	29.5	3400	9
		3500	
900	30.0	3600	9.5
		3700	
950	30.5	3800	10
		3900	
1000	31.0	4000	10.5

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50			11	
100				
200			12	
300				
400	11.5	1182	13	
500				
600	12.1-5	1186	14	
700				
800	12.50	1234 1/2	15 1/2	
900				
1000	13.00	1282 1/2	17 1/2	

REMARKS:

1956 (400)  
1960

No. .... Date

Machine. .... Reel.

Turns .... Cor. + .... Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer .... Cor.

Corrected temperature

Air .... Surface .... Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
recording	recording	0		
1350	1331	100		
		200		
1400	1379	300		
		400		
	1427	500		
		600		
1500	1477 1/2	700	22 1/2	
		800		
1550		900	24 1/2	
		1000		
1600	1527 1/2	1100	26	
		1200		
1650	1577 1/2	1300	27 1/2	
		1400		
1700	1627 1/2	1500	29 1/2	
		1600		
1750	1677 1/2	1700	31 1/2	
		1800		
1800	1727 1/2	1900	32 1/2	
		2000		
1850	1775 1/2	2100	34 1/2	
		2200		
1900	1825	2300	37	
		2400		

	Signature	2500	
	1911 7/2	2600	3 1/2
		2700	
1000	1959 7/2	2800	4 1/2
		2900	
	2008	3000	4 1/2
		3100	
2000	2055 1/2	3200	4 1/2
		3300	
1500	2103 3/4	3400	4 1/2
		3500	
2000	2151 1/2	3600	4 1/2
		3700	
2000	2201	3800	4 1/2
		3900	
2000	2217 1/2	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	23.00	2390 1/2	0.0	
50	23.00	2390 1/2	0.0	
100	23.00	2390 1/2	0.0	
200	23.00	2390 1/2	0.0	
300	23.00	2390 1/2	0.0	
400	23.00	2390 1/2	0.0	
500	23.00	2390 1/2	0.0	
600	23.00	2390 1/2	0.0	
700	23.00	2390 1/2	0.0	
800	23.00	2390 1/2	0.0	
900	23.00	2390 1/2	0.0	
1000	23.00	2390 1/2	0.0	

# REMARKS:

5 1/2 20  
26 22  
2 36 2

No. Date  
Machine. Reel.  
 Turns Cor. + Depth  
 Shot or lead  
 Bottom  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
	2581	0		
2650		100	69	
		200		
2700	2626	300	71	
		400		
2750	2675 1/2	500	74 1/2	
		600		
	2724 1/2	700	76 1/2	
		800		
	2773 1/2	900	79 1/2	
		1000		
	2822 1/2	1100	81 1/2	
		1200		
	2871 1/2	1300	85	
		1400		
	2920 1/2	1500	87 1/2	
		1600		
	2969 1/2	1700	90 1/2	
		1800		
	3018 1/2	1900	93	
		2000		
	3067 1/2	2100	96 1/2	
		2200		
	3116 1/2	2300	99 1/2	
		2400		



10		2500	
350	31.4	2600	11.5
		2700	
	31.75	2800	11.5
		2900	
3350	31.4	3000	11.5
		3100	
3100	31.4	3200	11.1
		3300	
2900	31.4	3400	11.1
		3500	
2700	31.4	3600	11.1
		3700	
2500		3800	11.1
		3900	
2300	31.4	4000	11.1

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	31.4	31.4		
50	31.4	31.4	0.1	
100				
200	31.7	31.7	0.1	
300				
400	31.4	31.4	0.1	
500				
600	31.4	31.4	0.1	
700				
800	31.4	31.4	0.1	
900				
1000	31.4	31.4	0.1	

# REMARKS:

81  
3.4  
17.1  
1.2  
1.0  
1.0

No. \_\_\_\_\_ Date \_\_\_\_\_  
 Machine. Reel.  
 Turns Cor. + Depth  
 Shot or lead  
 Bottom  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300	169 1/2	
		1400		
13 00	41 26 1/2	1500		
		1600		
13 50	41 7 1/2	1700	177 1/2	
		1800		
14 00	41 10	1900		
		2000		
		2100		
		2200		
15 00	42 11	2300	189	
		2400		

	2500	
4541/18	2600	197
	2700	
4403	2800	197
	2900	
	3000	201 1/2
	3100	
	3200	
	3300	
4541/18	3400	
	3500	
	3600	
	3700	
4541/18	3800	201
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50			197	
100				
200		4741/12		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Oct Log 56.7

No. 2021

Date Sept 11/99

Machine. Reel.

Turns 2062 Cor. +

121

Depth

2183

Shot or lead 60 lb

Bottom gy. silt, oz. 7, 1/2 part

Bottom temperature

38 1/10 - 7.5 deg. yel. egg

No. of thermometer 20457

Cor.

Corrected temperature

Air 77

Surface 77

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

5-35.15	22 =	0		
36.10	20.55	100		
37.05	20.05	200		
38.00	19.15	300		
39.45	18.25	400		
40.31	17.30	500		
41.27	16.40	600		
42.21	15.10	700		
43.15	14.45	800		
44.10	13.50	900		
45.10	12.45	1000		
46.15	11.40	1100		
47.20	10.35	1200		
48.25	09.30	1300		
49.35	08.25	1400		
50.45	07.20	1500		
51.55	06.10	1600		
53.00	05 =	1700		
54.20	03.40	1800		
55.30	02.30	1900		
56.40	01.35	2000		
57.50	6.00.40	2062		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
3603	183	2700	
<del>3603</del>	<del>32</del>	2800	
2062		2900	
<u>1541</u>	121	3000	
	<del>2062</del>	3100	
	2183	3200	
3603	103	3300	
<del>2062</del>	32	3400	
<u>1541</u>	<del>121</del>	3500	
	121	3600	
	<del>2062</del>	3700	
	2183	3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *22* Date *Aug 14 1881*Machine. *Sigsbee* Reel. *No. 1*Turns *1827* Cor. + *112* Depth *1939 fms*Shot or lead *30 lb*Bottom *Coarse glob. gy. s. & sh.*Bottom temperature *80*No. of thermometer *8055*Cor. *—*

Corrected temperature

Air *81*Surface *79*

Drift

Trawl or dredge

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

<i>1827</i>	<i>59.50</i>	0		
<i>1828</i>	<i>58.05</i>	100		
<i>1829</i>	<i>59.55</i>	200		
<i>1830</i>	<i>56.45</i>	300		
<i>1831</i>	<i>55.35</i>	400		
<i>1832</i>	<i>54.35</i>	500		
<i>1833</i>	<i>52.40</i>	600		
<i>1834</i>	<i>51.50</i>	700		
<i>1835</i>	<i>50.05</i>	800		
<i>1836</i>	<i>49.50</i>	900		
<i>1837</i>	<i>48.45</i>	1000		
<i>1838</i>	<i>47</i>	1100		
<i>1839</i>	<i>46.20</i>	1200		
<i>1840</i>	<i>45.05</i>	1300		
<i>1841</i>	<i>43.40</i>	1400		
<i>1842</i>	<i>42.30</i>	1500		
<i>1843</i>	<i>41.20</i>	1600		
<i>1844</i>	<i>40.15</i>	1700		
<i>1845</i>	<i>39</i>	1800		
<i>1846</i>	<i>38.35</i>	1900		
		2000		
		2100		
		2200		
		2300		
		2400		

$$\begin{array}{r}
 3000 \\
 1827 \\
 \hline
 1113 \\
 1776 \\
 \hline
 1000
 \end{array}$$

$$\begin{array}{r}
 3000 \\
 1827 \\
 \hline
 1113 \\
 1776 \\
 \hline
 1000
 \end{array}$$

$$\begin{array}{r}
 71.8 \\
 56.9 \\
 \hline
 14.6
 \end{array}$$

$$\begin{array}{r} 4750 \\ 2091 \\ \hline 7550 \\ 4000 \\ \hline 151 \\ \hline 3849 \end{array}$$

$$\begin{array}{r} 3950 \\ 147 \\ \hline 3803 \end{array}$$

$$\begin{array}{r} 3500 \\ 117\frac{1}{2} \\ \hline 3382\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4350 \\ 177\frac{1}{2} \\ \hline 4172\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4650 \\ 201\frac{1}{2} \\ \hline 4448\frac{1}{2} \end{array}$$

$$\begin{array}{r} 3350 \\ 148 \\ \hline 3202 \end{array}$$

$$\begin{array}{r} 4650 \\ 201\frac{1}{2} \\ \hline 4448\frac{1}{2} \end{array}$$

$$\begin{array}{r} 3900 \\ 144\frac{1}{2} \\ \hline 3755\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4650 \\ 201\frac{1}{2} \\ \hline 4448\frac{1}{2} \end{array}$$

$$\begin{array}{r} 3400 \\ 111 \\ \hline 3289 \end{array}$$

$$\begin{array}{r} 4600 \\ 197\frac{1}{2} \\ \hline 4502\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4200 \\ 166 \\ \hline 4034 \end{array}$$

$$\begin{array}{r} 4600 \\ 197\frac{1}{2} \\ \hline 4402\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4150 \\ 162\frac{1}{2} \\ \hline 3987\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4050 \\ 150\frac{1}{2} \\ \hline 3899\frac{1}{2} \end{array}$$

$$\begin{array}{r} 3600 \\ 124 \\ \hline 3476 \end{array}$$

$$\begin{array}{r} 4600 \\ 197\frac{1}{2} \\ \hline 4502\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4650 \\ 201\frac{1}{2} \\ \hline 4448\frac{1}{2} \end{array}$$

$$\begin{array}{r} 3650 \\ 127 \\ \hline 3523 \end{array}$$

$$\begin{array}{r} 3700 \\ 630\frac{1}{2} \\ \hline 3069\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4950 \\ 727 \\ \hline 4223 \end{array}$$

$$\begin{array}{r} 4250 \\ 169\frac{1}{2} \\ \hline 4080\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4600 \\ 197\frac{1}{2} \\ \hline 4402\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4400 \\ 181 \\ \hline 4219 \end{array}$$

$$\begin{array}{r} 3750 \\ 133\frac{1}{2} \\ \hline 3616\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4100 \\ 214 \\ \hline 3886 \end{array}$$

$$\begin{array}{r} 4100 \\ 155 \\ \hline 3945 \end{array}$$

$$\begin{array}{r} 4400 \\ 197\frac{1}{2} \\ \hline 4202\frac{1}{2} \end{array}$$

$$\begin{array}{r} 3500 \\ 137 \\ \hline 3637 \end{array}$$

$$4650$$

$$\begin{array}{r} 3850 \\ 141 \\ \hline 3709 \end{array}$$

$$\begin{array}{r} 4300 \\ 173\frac{1}{2} \\ \hline 4126\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4600 \\ 197\frac{1}{2} \\ \hline 4502\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4450 \\ 165\frac{1}{2} \\ \hline 4284\frac{1}{2} \end{array}$$

$$\begin{array}{r} 4700 \\ 205\frac{1}{2} \\ \hline 4594\frac{1}{2} \end{array}$$

$$4650$$

$$\begin{array}{r} 4090 \\ 250 \\ \hline 3840 \end{array}$$

$$\begin{array}{r} 4500 \\ 189 \\ \hline 4311 \end{array}$$

$$\begin{array}{r} 4400 \\ 227\frac{1}{2} \\ \hline 4172\frac{1}{2} \end{array}$$



$$\begin{array}{r} 2750 \\ 74 \frac{1}{2} \\ \hline 2675-2 \end{array}$$

$$\begin{array}{r} 1440 \\ 20 \frac{1}{2} \\ \hline 1379-2 \end{array}$$

$$\begin{array}{r} 3450 \\ 102 \\ \hline 3148-50 \end{array}$$

$$\begin{array}{r} 2650 \\ 69 \\ \hline 2581 \end{array}$$

$$\begin{array}{r} 1750 \\ 30 \frac{1}{2} \\ \hline 1719-2 \end{array}$$

$$\begin{array}{r} 1450 \\ 21 \\ \hline 1429 \end{array}$$

$$\begin{array}{r} 1950 \\ 35 \frac{1}{2} \\ \hline 1911-2 \end{array}$$

$$\begin{array}{r} 3300 \\ 100 \\ \hline 3196-2 \end{array}$$

$$\begin{array}{r} 1500 \\ 22 \frac{1}{2} \\ \hline 1477-2 \end{array}$$

$$\begin{array}{r} 2850 \\ 29 \frac{1}{2} \\ \hline 2771-2 \end{array}$$

$$\begin{array}{r} 3100 \frac{1}{2} \\ 99 \\ \hline \end{array}$$

$$\begin{array}{r} 2400 \\ 81 \frac{1}{2} \\ \hline 2318-2 \end{array}$$

$$\begin{array}{r} 3100 \\ 93 \\ \hline 3007 \end{array}$$

$$\begin{array}{r} 1650 \\ 27 \frac{1}{2} \\ \hline 1622-2 \end{array}$$

$$\begin{array}{r} 1600 \\ 26 \\ \hline 1574 \end{array}$$

$$\begin{array}{r} 1700 \\ 29 \frac{1}{2} \\ \hline 1670-2 \end{array}$$

$$\begin{array}{r} 3000 \\ 92 \\ \hline 2908 \frac{1}{2} \end{array}$$

$$\begin{array}{r} 1400 \\ 23 \frac{1}{2} \\ \hline 1376-2 \end{array}$$

$$\begin{array}{r} 4550 \frac{1}{2} \\ 209 \frac{1}{2} \\ \hline 4340 \frac{1}{2} \end{array}$$

$$\begin{array}{r} 1900 \\ 37 \\ \hline 1863 \end{array}$$

$$\begin{array}{r} 1950 \frac{1}{2} \\ 99 \\ \hline \end{array}$$

$$1400$$

$$\begin{array}{r} 1500 \frac{1}{2} \\ 34 \frac{1}{2} \\ \hline 1465-2 \end{array}$$

$$\begin{array}{r} 2050 \\ 44 \\ \hline 2006 \end{array}$$

$$\begin{array}{r} 2100 \\ 44 \frac{1}{2} \\ \hline 2055-2 \end{array}$$

$$\begin{array}{r} 2000 \\ 87 \frac{1}{2} \\ \hline 1912-2 \end{array}$$

$$\begin{array}{r} 2150 \\ 46 \frac{1}{2} \\ \hline 2103-2 \end{array}$$

$$\begin{array}{r} 2400 \\ 45 \frac{1}{2} \\ \hline 2354-2 \end{array}$$

$$\begin{array}{r} 2250 \\ 49 \\ \hline 2201 \end{array}$$

$$\begin{array}{r} 2300 \\ 56 \frac{1}{2} \\ \hline 2243-2 \end{array}$$

$$\begin{array}{r} 2350 \\ 55 \frac{1}{2} \\ \hline 2294-2 \end{array}$$

$$\begin{array}{r} 3050 \\ 91 \frac{1}{2} \\ \hline 2958-2 \end{array}$$

$$\begin{array}{r} 2450 \\ 59 \frac{1}{2} \\ \hline 2390-2 \end{array}$$

$$\begin{array}{r} 2550 \\ 64 \frac{1}{2} \\ \hline 2485-2 \end{array}$$

$$\begin{array}{r} 3200 \\ 99 \frac{1}{2} \\ \hline 3100 \frac{1}{2} \end{array}$$

$$\begin{array}{r} 2600 \\ 66 \\ \hline 2534 \end{array}$$

$$\begin{array}{r} 2500 \\ 76 \frac{1}{2} \\ \hline 2423-2 \end{array}$$

$$\begin{array}{r} 2950 \\ 15 \\ \hline 2865-2 \end{array}$$

$$\begin{array}{r} 3200 \\ 99 \frac{1}{2} \\ \hline 3100 \frac{1}{2} \end{array}$$

$$\begin{array}{r} 3150 \\ 96 \frac{1}{2} \\ \hline 3053-2 \end{array}$$

$$\begin{array}{r} 3657 \\ 2606 \\ \hline 1051 \end{array}$$

$$\begin{array}{r} 143 \\ 9 \\ \hline 134 \end{array}$$



$$\begin{array}{r} 3000 \\ 99 \\ \hline 2901 \end{array}$$

$$\begin{array}{r} 3500 \\ 112 \\ \hline 3388 \end{array}$$

$$\begin{array}{r} 2268 \\ 2204 \\ \hline 164 \end{array}$$

$$\begin{array}{r} 3550 \\ 111 \\ \hline 3139 \end{array}$$

$$\begin{array}{r} 3200 \\ 1900 \\ \hline 546 \end{array}$$

$$5464$$

$$\begin{array}{r} 3600 \\ 137 \\ \hline 3463 \end{array}$$

$$\begin{array}{r} 3460 \\ 139 \\ \hline 3321 \end{array}$$

$$\begin{array}{r} 2950 \\ 96 \\ \hline 2854 \end{array}$$

$$\begin{array}{r} 3100 \\ 105 \\ \hline 2995 \end{array}$$

$$\begin{array}{r} 3600 \\ 23 \\ \hline 3577 \end{array}$$

$$\begin{array}{r} 3050 \\ 102 \\ \hline 2948 \end{array}$$

$$\begin{array}{r} 3050 \\ 3094 \\ \hline 2740 \end{array}$$

$$\begin{array}{r} 754 \\ 114 \\ \hline 640 \end{array}$$

$$\begin{array}{r} 5750 \\ 330 \\ \hline 5420 \end{array}$$

$$\begin{array}{r} 3850 \\ 157 \\ \hline 3693 \end{array}$$

$$\begin{array}{r} 4650 \\ 172 \\ \hline 4478 \end{array}$$

$$\begin{array}{r} 3977 \\ 43 \\ \hline 3934 \end{array}$$

$$\begin{array}{r} 3400 \\ 169 \\ \hline 3231 \end{array}$$

$$\begin{array}{r} 4100 \\ 176 \\ \hline 3924 \end{array}$$

$$\begin{array}{r} 4300 \\ 207 \\ \hline 4093 \end{array}$$

$$\begin{array}{r} 4100 \\ 176 \\ \hline 3924 \end{array}$$

$$\begin{array}{r} 4200 \\ 184 \\ \hline 4016 \end{array}$$

$$\begin{array}{r} 3923 \\ 5 \\ \hline 3918 \end{array}$$

$$\begin{array}{r} 2700 \\ 2419 \\ \hline 2700 \end{array}$$

$$\begin{array}{r} 4050 \\ 172 \\ \hline 3878 \end{array}$$

$$\begin{array}{r} 4150 \\ 188 \\ \hline 3962 \end{array}$$

$$\begin{array}{r} 4300 \\ 192 \\ \hline 4108 \end{array}$$

$$\begin{array}{r} 4250 \\ 184 \\ \hline 4066 \end{array}$$

$$\begin{array}{r} 5700 \\ 324 \\ \hline 5376 \end{array}$$

$$\begin{array}{r} 11 \\ 70 \\ 60 \\ 90 \\ 00 \end{array}$$

$$\begin{array}{r} 11610 \\ 12 \\ \hline 01910 \end{array}$$